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(See inside cover)



## Summary Report

NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

# MISSILE SYSTEM COMPONENT CALIBRATION FACILITIES FOR THE SOVIET SS-17, -18, AND -19 MISSILE SYSTEMS

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**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
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## **Missile System Component Calibration Facilities for the Soviet SS-17, -18, and -19 Missile Systems**

Missile system component calibration facilities have been newly identified at the 12 ICBM complexes in the Soviet Union where the SS-17, -18, and -19 missile systems are or will be deployed (see Table 1).

Two types of calibration buildings have been identified. One type, a T-shaped building, was seen at only four of the 12 complexes. The other type, a rectangular building, was seen at the remaining eight complexes.

These two types of calibration buildings contain an instrumentation room with narrow, horizontal, and slit-type sighting windows on three sides and three large pedestal support positions. The dimensions of these buildings are shown on Figures 1 and 2.

Six to ten calibration monuments are at varying distances on either side and in front of the buildings (Figures 1 and 2). All of the calibration monuments are on heavy concrete bases and are elevated and leveled. This method of construction allows a view of the furthest calibration monument through the sighting windows from the calibration building. Each calibration monument is connected to the calibration building by an underground cable.

The location of these calibration facilities varies among these complexes. It is usually near the rail-to-road transfer point, isolated from heavy vehicular traffic, and generally oriented on a north/south axis. Table 1 lists the complexes at which this facility has been identified, the type of calibration building, the location within the complex, the associated missile system, and the date of completion.

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Table 1. Missile Complexes with Calibration Facilities

Complex	Type of Calibration Building	Facility Location	Missile System
Aleysk	Rectangular	Near Inch tng site	SS-18
Dombarovskiy	T-shaped	Near SS-18 spt bldg	SS-18
Imeni Gastello	Rectangular	Near RIM fac	SS-18
Kartaly	Rectangular	Near RIM fac	SS-18
Uzhur	Rectangular	Near headquarters command & control	SS-18
Zhangiz-Tobe	Rectangular	Near Inch tng site	SS-18
Kostroma	Rectangular	Near Inch tng site	Poss SS-17
Yedrovo	T-shaped	Near east end of rail-to-road transfer point	SS-17
Derazhnya	T-shaped	Near IRBM Inch site 3 spt fac	SS-19
Kozelsk	Rectangular	Near Inch tng site	SS-19
Pervomaysk	T-shaped	Near nuclear warhead fac	SS-19
Tatishchevo	Rectangular	Near Inch tng site	SS-19

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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